

GILA RIVER BASIN

09482950 RAILROAD WASH AT TUCSON, AZ

LOCATION.--Lat 32°12'50", long 110°56'45", in NE¹/₄SE¹/₄ sec.18, T.14 S., R.14 E., Pima County, Hydrologic Unit 15050301, on center of culvert on upstream side of Winsett Street in Tucson. Prior to Dec. 11, 1978, at site 200 ft upstream.

DRAINAGE AREA.--2.3 mi².

PERIOD OF RECORD.--October 1975 to September 1983 (publication by U.S. Geological Survey discontinued; records available from cooperator listed below).

GAGE.--Water-stage recorder. Altitude of gage is 2,425 ft, from topographic map. Prior to Dec. 11, 1978, at site 200 ft upstream at different datum.

COOPERATION.--Records furnished by Water Resources Research Center, University of Arizona.

AVERAGE DISCHARGE.--8 years, 0.21 ft³/s, 152 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 421 ft³/s July 25, 1982, gage height, 5.62 ft; no flow most of each year.

Annual peak discharge

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1970	07-20-70	642	C	1978	10-06-77	223	C
1971	07-19-71	1,590	C	1979	10-21-78	243	C
1972	08-12-72	1,280	C	1980	08-23-80	222	C
1973	07-27-73	220	C	1981	06-25-81	162	C
1974	07-18-74	482	C	1982	07-25-82	421	C
1976	07-11-76	312	C	1983	01-29-83	106	C
1977	09-10-77	300	C				

Magnitude and probability of instantaneous peak flow based on period of record 1970-74, 1976-83

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2	5	10	25	50	100
50%	20%	10%	4%	2%	1%
340	666	961	1,440	1,870	2,390
Weighted skew	(logs) =	0.19			
Mean	(logs) =	2.54			
Standard dev.	(logs) =	0.34			

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
0.73	2.7	2,490	0.0	1.0	11.0	1.7	4.2

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